

United States of America
Department of Transportation -- Federal Aviation Administration

Supplemental Type Certificate

Number ST02896AT

This certificate issued to EMTEQ Engineering
3110 Commerce Parkway
Miramar, FL 33025

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.

Original Product - Type Certificate Number : See AML

Make : See AML

Model : See AML

Description of Type Design Change: Installation of a Kannad Model 406-AF Emergency Locator Transmitter (ELT) on aircraft listed in Approved model List (AML), Document No. 2-23982-002, Dated July 22, 2004, or later FAA approved revision.

Limitations and Conditions: This approval should not be extended to other aircraft on which other previously approved modifications are incorporated, unless it is determine by the installer that the interrelationship between this change and any other previously approved modifications will produce no adverse effect upon the airworthiness of that airplane. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application : March 30, 2004

Date reissued :

Date of issuance : July 22, 2004

Date amended : June 23, 2010



By direction of the Administrator

[Signature]
(Signature)

for Melvin D. Taylor
Manager
Atlanta Aircraft Certification Office

(Title)

United States of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number ST02896AT

Revisions to the AML must be coordinated between the STC holder and the responsible ACO, and require FAA approval. AML revisions will be treated as STC amendments, so FAA involvement is required as defined in the applicable FAA Orders.

This STC is only applicable to the 14 CFR Part 25 airplanes identified in this AML. Installations in other 14 CFR Part 23, Part 27, and Part 29 aircraft are not authorized under this STC.

This STC assumes the following equipment is already installed on each airplane eligible for this proposed modification. The following equipment must be properly linked to meet the intended function for the system, as certified under this AML approval.

Instructions for Continued Airworthiness (ICA), EMTEQ Engineering Document No. 2-23982-905, Rev. E, dated May 28, 2010, or later FAA accepted revision must be made available to the operator at the time of installation.

Regulations at the latest amendment 25-0 through 25-122

25.23, 25.561, 25.601, 25.603, 25.611, 25.863, 25.869, 25.1301, 25.1309, 25.1322, 25.1351, 25.1353, 25.1381, 25.1431, 25.1529

Appendix F

Regulations at an intermediate amendment

Appendix H

Regulations at the amendment level in TCDS A28NM

Appendix G

14 CFR Part 26 Regulations

Based on 14 CFR §21.101(g), applicable provision of 14 CFR part 26 are included in the certification basis. For any future 14 CFR part 26 amendments, the holder of this STC must demonstrate compliance with the applicable sections. As of the issuance date of this STC, compliance has been found for the following regulation: 14 CFR §26.11.

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EMTEQ Engineering
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FAA APPROVED MODEL LIST FOR:

KANNAD 406 AF

EMERGENCY LOCATOR TRANSMITTER (ELT)

Transmitter Unit: P/N S1821502-02

Programming Dongle: P/N S1820514-05


Remote Control Panel: P/N S1820513-02, S1820513-07 or S1820513-15

Antenna: Chelton P/N 2624-82 or Dayton P/N ELT10-696-1

EMTEQ ENGINEERING

STC No. ST02896AT

FAA APPROVED: 

 Melvin D. Taylor, Manager
Aircraft Certification Office
Federal Aviation Administration
Atlanta, Georgia

1. AML REVISION LOG

<u>REVISION NO.</u>	<u>PAGES</u>	<u>DESCRIPTION</u>	<u>FAA APPROVAL</u>	<u>DATE</u>
Initial Release	1	Complete Supplement	David Crew, for Manager, Aircraft Certification Office Federal Aviation Administration Atlanta, Georgia	07-22-2004
A	1-2	Added the following A/C types: B767-200/-300 DC-9-10/-20/-30/-40/-50 DC-9-80, MD-88/-90 F.28 Mark 0100	Rick Jones, Associate Manager, Aircraft Certification Office Federal Aviation Administration Atlanta, Georgia	11-03-2004
B	1-3	Added B757-200 A/C type.	Rick Jones, Associate Manager, Aircraft Certification Office Federal Aviation Administration Atlanta, Georgia	01-10-2005
C	1-4	Added the following A/C types: A310-200/-300 DC-10-30 MD-11	Rick Jones, Associate Manager, Aircraft Certification Office Federal Aviation Administration Atlanta, Georgia	04-02-2005
D	1-4	Revised installation data for aircraft types A310, DC-10 and MD-11.	Rick Jones, Associate Manager, Aircraft Certification Office Federal Aviation Administration Atlanta, Georgia	05-11-2005
E	1-9	Adds B727-100/-200 A/C type. Reformats AML document per AC23-22.	See Page 1.	05-03-2007
F	1-9	Adds RCP P/N S1820513-15 for aircraft types A319 / A320 / A321. Reformats AML document per AC23-22.	See Page 1	06-23-2010

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2. INTRODUCTION

This document is the FAA Approved Model List (AML) for Supplemental Type Certificate (STC) No. ST02896AT for installing the KANNAD 406 AF Emergency Locator Transmitter (ELT) into eligible aircraft.

Revisions to this AML must be coordinated between the STC holder and the responsible ACO, and require FAA approval.

3. CERTIFICATION BASIS

The certification basis for each model qualified for this modification is detailed below.

Aircraft Make	Aircraft Model	Type Data Sheet	Certification Basis
Airbus	A319, A320, A321 series	A28NM	<ul style="list-style-type: none"> • FAR 25 <ul style="list-style-type: none"> ◦ Amendments 25-1 through 25-56 thereto.
Boeing	767-200/300 series	A1NM	<ul style="list-style-type: none"> • FAR 25 <ul style="list-style-type: none"> ◦ Amendments 25-1 through 25-45. Exceptions noted in TCDS A1NM. • FAR 36 <ul style="list-style-type: none"> ◦ Amendments 36-1 through 36-12. • SFAR 27
McDonnell Douglas	DC-9-10/-20/-30/-40/-50 series	A6WE	<ul style="list-style-type: none"> • CAR 4b dated December 31, 1953 <ul style="list-style-type: none"> ◦ Amendments 4b-1 thru 4b-16 ◦ Special Conditions contained in Attachment "A" of FAA letter to Douglas dated October 20, 1965, ◦ Provisions of SR-422B and exceptions noted in TCDS A6WE.
McDonnell Douglas	DC-9-80 series MD-88/-90 series	A6WE	<ul style="list-style-type: none"> • FAR 25, effective February 1, 1965 <ul style="list-style-type: none"> ◦ Amendments 25-1 through 25-70. Exceptions noted in TCDS A6WE.
Fokker	F.28 Mark 0100 series	A20EU	<ul style="list-style-type: none"> • FAR Part 25 dated February 1, 1965 <ul style="list-style-type: none"> ◦ Amendments 25-1 through 25-60 effective June 16, 1986, with exceptions noted in TCDS A20EU. • FAR Part 36 effective December 1, 1969 <ul style="list-style-type: none"> ◦ Amended through Am 36-16 effective November 22, 1988 • SFAR 27 <ul style="list-style-type: none"> ◦ Amended through Am 27-6 effective March 28, 1986
Boeing	757-200 series	A2NM	<ul style="list-style-type: none"> • FAR 25 <ul style="list-style-type: none"> ◦ Amendment 25-1 through 25-45. Exceptions noted in A2NM • FAR 36 <ul style="list-style-type: none"> ◦ Amendment 36-1 through 36-12. • SFAR 27

Aircraft	Aircraft	Type Data	Certification Basis
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Make	Model	Sheet	
Airbus	A310-200/-300 series	A35EU	<ul style="list-style-type: none"> FAR 25 <ul style="list-style-type: none"> Amendment 1 through 21 Basic; Amendment 22 through 45 (elected) except for 25.109 and 25.631; Amendment 46 (elected) for paragraph 25.803, and 25.809(f)(1)(v); Amendment 47 (elected) for paragraph 25-809(f)(1)(iii); Amendment 49 (elected) for paragraph 25.733; Amendment 54 (elected) for paragraph 25.365(e)(1) and (e)(2).
McDonnell Douglas	DC-10-30 series	A22WE	<ul style="list-style-type: none"> FAR 25, dated February 1, 1965 <ul style="list-style-type: none"> Amendments 1 through 22 "Airworthiness Standards: Transport Category Airplanes," and FAR 25.471 of Amendment 25-23
McDonnell Douglas	MD-11 series	A22WE	<ul style="list-style-type: none"> FAR 25 <ul style="list-style-type: none"> Amendments 25-1 through 25-61, except for §§ 25.607, 25.631, and 25.1309 as amended by Amendment 25-22 §25.109 as amended by Amendment 25-41; and §25.832 and §25.858
Boeing	727-100/-200 series	A3WE	<ul style="list-style-type: none"> CAR 4b, dated December 31, 1953 <ul style="list-style-type: none"> Amendments 4b-1 through 4b-11 thereto Special CAR SR-422B Special Conditions listed in Attachment "A" of FAA letter to Boeing dated October 27, 1961, and FAA letter to Boeing dated June 12, 1963 and exceptions noted in TCDS A3WE.

4. APPROVED MODEL LIST

Aircraft	Aircraft	Type	Required Approved Data and Added	AML
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Make	Model	Certificate Number	Model Specific Limitations	Amendment Date
Airbus	A319, A320, A321 series	A28NM	Master Document List (MDL): MDL No. 2-23982-001, Rev. N STC No. ST02896AT Airplane Flight Manual Supplement: Not Applicable Installation Instructions: 2-23982-801 Instructions for Continued Airworthiness: 2-23982-905 (Installation) 2-23982-908 (AMM) 2-23982-909 (IPC) 2-86117-901 (EWIS)	06-23-2010
Boeing	767-200/-300 series	A1NM	Master Document List (MDL): MDL No. 2-23982-001, Rev. D STC No. ST02896AT Airplane Flight Manual Supplement: Not Applicable Installation Instructions: 2-23982-805 Instructions for Continued Airworthiness: 2-23982-905 (Installation) 2-23982-908 (AMM) 2-23982-909 (IPC)	11-03-2004
McDonnell Douglas	DC-9-10/-20/-30/-40/-50 series	A6WE	Master Document List (MDL): MDL No. 2-23982-001, Rev. E STC No. ST02896AT Airplane Flight Manual Supplement: Not Applicable Installation Instructions: 2-25147-800 Instructions for Continued Airworthiness: 2-23982-905 (Installation) 2-23982-908 (AMM) 2-23982-909 (IPC)	11-03-2004

Aircraft Make	Aircraft Model	Type Certificate Number	Required Approved Data and Added Model Specific Limitations	AML Amendment Date
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McDonnell Douglas	DC-9-80 series MD-88/-90 series	A6WE	Master Document List (MDL): MDL No. 2-23982-001, Rev. E STC No. ST02896AT Airplane Flight Manual Supplement: Not Applicable Installation Instructions: 2-25147-800 Instructions for Continued Airworthiness: 2-23982-905 (Installation) 2-23982-908 (AMM) 2-23982-909 (IPC)	11-03-2004
Fokker	F.28 Mark 0100 series	A20EU	Master Document List (MDL): MDL No. 2-23982-001, Rev. E STC No. ST02896AT Airplane Flight Manual Supplement: Not Applicable Installation Instructions: 2-23982-803 Instructions for Continued Airworthiness: 2-23982-905 (Installation) 2-23982-908 (AMM) 2-23982-909 (IPC)	11-03-2004
Boeing	757-200 series	A2NM	Master Document List (MDL): MDL No. 2-23982-001, Rev. F STC No. ST02896AT Airplane Flight Manual Supplement: Not Applicable Installation Instructions: 2-23982-807 Instructions for Continued Airworthiness: 2-23982-905 (Installation) 2-23982-908 (AMM) 2-23982-909 (IPC)	01-10-2005

Aircraft Make	Aircraft Model	Type Certificate Number	Required Approved Data and Added Model Specific Limitations	AML Amendment Date
Airbus	A310-200/-300 series	A35EU	Master Document List (MDL): MDL No. 2-23982-001, Rev. H	05-11-2005

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			<p>STC No. ST02896AT</p> <p>Airplane Flight Manual Supplement: Not Applicable</p> <p>Installation Instructions: 2-26963-800</p> <p>Instructions for Continued Airworthiness: 2-23982-905 (Installation) 2-23982-908 (AMM) 2-23982-909 (IPC)</p>	
McDonnell Douglas	DC-10-30 series	A22WE	<p>Master Document List (MDL): MDL No. 2-23982-001, Rev. H STC No. ST02896AT</p> <p>Airplane Flight Manual Supplement: Not Applicable</p> <p>Installation Instructions: 2-26963-810</p> <p>Instructions for Continued Airworthiness: 2-23982-905 (Installation) 2-23982-908 (AMM) 2-23982-909 (IPC)</p>	05-11-2005
McDonnell Douglas	MD-11 series	A22WE	<p>Master Document List (MDL): MDL No. 2-23982-001, Rev. H STC No. ST02896AT</p> <p>Airplane Flight Manual Supplement: Not Applicable</p> <p>Installation Instructions: 2-26963-810</p> <p>Instructions for Continued Airworthiness: 2-23982-905 (Installation) 2-23982-908 (AMM) 2-23982-909 (IPC)</p>	05-11-2005

Aircraft Make	Aircraft Model	Type Certificate Number	Required Approved Data and Added Model Specific Limitations	AML Amendment Date
Boeing	727-100/-200 series	A3WE	<p>Master Document List (MDL): MDL No. 2-23982-001, Rev. K STC No. ST02896AT</p> <p>Airplane Flight Manual Supplement:</p>	05-03-2007

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			<p>Not Applicable</p> <p>Installation Instructions: 2-40955-801</p> <p>Instructions for Continued Airworthiness: 2-23982-905 (Installation) 2-23982-908 (AMM) 2-23982-909 (IPC)</p>	
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